

Claims

1. A liquid absorbent open-cell polymeric foam material having properties which makes it suitable for use as an absorbent structure in absorbent articles such as diapers, pant diapers, sanitary napkins, incontinence guards, wound dressings, bed protections etc., characterized in

that the foam material has an absorption rate at wetting of at least 0.4 ml/s for a round sample having the diameter 50 mm, a liquid distribution capacity at an inclination of 30° of at least 15 g/g and a liquid storage capacity of at least 9% measured through CRC (centrifuge retention capacity), at which the test liquid in all cases is synthetic urine.

2. A liquid absorbent foam material as claimed in claim 1, characterized in

that its absorption capacity at wetting is at least 0.5 ml/s, its liquid distribution capacity at an inclination of 30° is at least 16 g/g, and its liquid storage capacity measured through CRC is at least 11%.

3. A liquid absorbent foam material as claimed in claim 1 or 2, characterized in

that the gel liquid absorption determined as the total liquid amount in pores below 3 µm according to pore volume distribution (PVD) measurements, is at least 4 g/g and preferably at least 5 g/g synthetic urine and the capillary liquid absorption determined as the total liquid amount in pores between 3-100 µm according to PVD measurement, is at least 8 ml/g, preferably at least 10 ml/g.

4. A liquid absorbent foam material as claimed in any of the preceding claims, characterized in

that the foam material in its pore system contains fibers.

5. An absorbent structure in an absorbent article such as a diaper, pant diaper, sanitary napkin, incontinence guard, wound dressing, bed protection etc.,

characterized in

that the absorbent structure comprises a liquid absorbent open-cell foam material

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6. An absorbent structure as claimed in claim 5,
characterized in
that said foam material is comprised in the absorbent structure as the sole component.

7. An absorbent structure as claimed in claim 5 or 6,
characterized in
that the foam material has a three-dimensional anatomic shape.

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